Montana Data Centers
Specifications

HELENA DATA CENTER

- 15,024 sq. ft. building
- Contains 6,264 sq. ft. of raised floor computer room
- Capacity for up to 247 cabinets
- 576 strands of redundant fiber connections to campus WAN
- Cooled by KyotoCooling
- Designed for 150w of power/sq. ft.

MILES CITY DATA CENTER

- 8,645 sq. ft. building
- Contains 2,862 sq. ft. of raised floor computer room
- Capacity for up to 96 cabinets
- Designed for 150w of power/sq. ft.
- Strategically located between two power grids

Both Helena and Miles City data centers were designed to meet the following qualifications:

- Critical Infrastructure - Department of Defense Security Standards
- Leadership in Energy and Environmental Design (LEED)
- Green Building Rating System
- Designed as a Tier 3 facility, N+1 facility infrastructure

" The state of Montana should be very proud of the Helena and Miles City data centers. They are cutting-edge facilities, and allow the state, as an enterprise system, to be more efficient and innovative in a secure and stable information technology environment."

~ Ron Baldwin
State Chief Information Officer

For more information
contact the SITSD
Service Desk @ 406-444-2000
or email ServiceDesk@mt.gov

MONTANA
Data Centers

Helena Data Center

Miles City Data Center

Managed By
**State Information Technology
Services Division**
Montana Department of Administration

State ITSD
connecting information and people

SMDC

Helena

The Data Center in Helena features a state-of-the-art primary cooling system specifically designed for data centers. The system takes advantage of the cool air that is available to us most of the year allowing

Kyoto Wheel

the unit to exchange cool air for the warm air that is inside the data center. In 2007 the energy recovery wheels could have been used 86 percent of the total hours to completely cool the air within the computer room through heat transference with outside air. The remaining 14 percent of the time, the recovery wheels could have been used for partial cooling. This could have resulted in a 4 percent use of conventional air conditioning. Three 300kw units were installed in a 600kw redundant

Behind the Kyoto Wheel

configuration ensuring system availability in the event of component failure. This can also be expanded to a fourth unit as load grows to 900kw.

Securing the Data Center

Keeping the state of Montana data secure is a top priority. Both the Helena Data Center and the Miles City Data Center require badge access and biometric system screening to enter the facility. All persons who have access to the data centers must go through a background check before being granted access. Entrances are viewed immediately by personnel through CCTV camera systems. The CCTV system is set throughout the facilities and cameras are monitored 24x7x365 by the Enterprise Operations Center in Helena**.**

Protecting our data assets from a natural disaster

Our data centers use an innovative method for seismic mitigation called dual platform ISOBase solution. The ISOBase is designed so that the bottom platform moves with ground motion, thereby minimizing the transfer of shock and vibration into the frame. The bearing acts as a

ISOBase installation

"white noise" filter isolating the top platform from damaging vibrations. The ISOBase solution allows the equipment to continue functioning through seismic activity.

MCDC

Miles City

The Miles City Data Center represents a significant state investment in eastern Montana. Construction bids were

Security fence at MCDC

awarded

to central and eastern Montana businesses. The state hired a local staff person and local companies were awarded contracts to perform routine custodial and mechanical equipment support. The Miles City Data Center's presence has fostered interest from companies outside Montana. Both private and public sector organizations have indicated interests in leasing opportunities at the data center. The leasing of quality IT hosting services at the data center is not available elsewhere in eastern Montana and will provide state revenue to offset operational costs of the data center. The state has installed three redundant 10 GB network links, and is implementing redundant IT services of critical state business IT functions.